

Title (en)

SYSTEM AND METHOD TO CONTROL LATENCY OF SERIALY-REPLICATED MULTI-DESTINATION FLOWS

Title (de)

SYSTEM UND VERFAHREN ZUR STEUERUNG DER LATENZ VON FORTLAUFEND REPLIZIERTEN MEHRFACHZIELSTRÖMUNGEN

Title (fr)

SYSTÈME ET PROCÉDÉ POUR COMMANDER LA LATENCE DE FLUX DE MULTI-DESTINATION RÉPLIQUÉS EN SÉRIE

Publication

**EP 3322142 A1 20180516 (EN)**

Application

**EP 17183138 A 20170725**

Priority

US 201615349629 A 20161111

Abstract (en)

Exemplified systems and methods facilitate multicasting latency optimization operations for router, switches, and other network devices, for routed Layer-3 multicast packets to provide even distribution latency and/or selective prioritized distribution of latency among multicast destinations. A list of network destinations for serially-replicated packets is traversed in different sequences from one packet to the next, to provide delay fairness among the listed destinations. The list of network destinations are mapped to physical network ports, virtual ports, or logical ports of the router, switches, or other network devices and, thus, the different sequences are also traversed from these physical network ports, virtual ports, or logical ports. The exemplified systems and methods facilitates the management of traffic that is particularly beneficial in in a data center.

IPC 8 full level

**H04L 12/18** (2006.01); **H04L 12/803** (2013.01); **H04L 12/879** (2013.01); **H04L 12/931** (2013.01); **H04L 49/901** (2022.01)

CPC (source: EP US)

**H04L 12/1886** (2013.01 - EP US); **H04L 47/125** (2013.01 - EP US); **H04L 47/283** (2013.01 - US); **H04L 47/34** (2013.01 - US); **H04L 49/201** (2013.01 - EP US); **H04L 49/901** (2013.01 - EP US)

Citation (search report)

- [XY] EP 2997702 A1 20160323 - CISCO TECH INC [US]
- [XY] US 6751219 B1 20040615 - LIPP ROBERT J [US], et al
- [X] US 2016087808 A1 20160324 - SCHMIDT GERALD [US], et al
- [Y] US 6553028 B1 20030422 - TANG CHENG [US], et al
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3322142 A1 20180516**; US 10218525 B2 20190226; US 10686616 B2 20200616; US 11483171 B2 20221025; US 2018139066 A1 20180517; US 2019245710 A1 20190808; US 2020313921 A1 20201001

DOCDB simple family (application)

**EP 17183138 A 20170725**; US 201615349629 A 20161111; US 201916286031 A 20190226; US 202016901260 A 20200615